PTO/SB/05 (08-03)

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## UTILITY PATENT APPLICATION **TRANSMITTAL**

24061.188 Attorney Docket No. Chun-Chieh Lin First Inventor MRAM DEVICE HAVING LOW-K Title INTER-METAL DIELECTRIC EV333441750US Express Mail Label No.

(Only for new nonprovisional applications under 37 CFR 1.53(b))

	APPLICATION ELEMENTS	Mail Stop Patent Application Commissioner for Patents									
See MPEP chapter 600 concerning utility patent application contents.		P.O. Box 1450 Alexandria VA 22313-1450									
(Submi	ransmittal Form (e.g., PTO/SB/17)  it an original and a duplicate for fee processing)  cant claims small entity status.  7 CFR 1.27.  fication [Total Pages15]  red arrangement set forth below)  riptive title of the invention  s Reference to Related Applications  ment Regarding Fed sponsored R & D  rence to sequence listing, a table,  computer program listing appendix  ground of the Invention  Summary of the Invention  Description of the Drawings (if filed)  led Description  n(s)  act of the Disclosure	7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)  8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)  a. Computer Readable Form (CRF)  b. Specification Sequence Listing on:  i. CD-ROM or CD-R (2 copies); or  ii. Paper  c. Statements verifying identity of above copies  ACCOMPANYING APPLICATION PARTS									
4. Drawin 5. Oath or Dec a. Ne b. Co (fo) i. 4	ring(s) (35 U.S.C. 113) [Total Sheets] claration [Total Sheets] rively executed (original or copy)  py from a prior application (37 CFR 1.63(d)) r continuation/divisional with Box 18 completed)  DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).  lication Data Sheet. See 37 CFR 1.76	9. Assignment Papers (cover sheet & document(s)) 10. 37 CFR 3.73(b) Statement Power of (when there is an assignee) Attorney 11. English Translation Document (if applicable) 12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations 13. Preliminary Amendment 14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. 17. Other: Check (1072,00).									
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:											
Contin	nuation Divisional Continua	tion-in-part (CIP) of prior application No.:									
Prior application information:  Examiner  For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference.  The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.  19. CORRESPONDENCE ADDRESS											
		— —									
Customer Number: 000027683 OR Correspondence address below											
Name	David M. O'Dell										
Address	Haynes and Boone, LLP 901 Main Street, Suite 3100										
City	Dallas	State Texas Zip Code 75202									
Country	USA T	elephone 972-739-8635 Fax 214-200-0853									
Name (Print/Type) Dave R. Hofman Registration No. (Attorney/Agent)   55,272											
Signature	DRHok	Date 4/2/04									

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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FEE TRANSMITTA		Complete if Known							
I LE INAMOMITIA	_	Application Number							
for FY 2004		Filing Date							
Effective 10/01/2003. Patent fees are subject to annual revision.		First Named Inventor Chun-Chieh Lin							
Applicant claims small entity status. See 37 CFR 1.27		Examiner Name							
		Art Unit							
TOTAL AMOUNT OF PAYMENT (\$) 1,072.00		Attorney Docket No. 24061.188						<u></u>	
METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)								
Check Credit card Money Other None	3. ADDITIONAL FEES								
Deposit Account:	Large Entity   Small Entity  Fee Fee Fee Fee Fee Fee Fee Fee Fee Pescription								
Deposit Account 08-1394		e (\$)	Code			Fee Description		Fee Paid	
Number	1051		2051			arge - late filing fee or oat			
Account Account Name	1052	2 50	2052			charge - late provisional filing fee or er sheet			
Name The Director is authorized to: (check all that apply)	1053	130	1053			nglish specification			
Charge fee(s) indicated below Credit any overpayments		2,520				ng a request for ex parte i	<del></del>		
Charge any additional fee(s) or any underpayment of fee(s)	1804	920*	1804	920*	Reque Exami	sting publication of SIR pa ner action	rior to		
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805	1,840*	1805 1			esting publication of SIR a ner action	i		
FEE CALCULATION	1251		2251			sion for reply within first m			
1. BASIC FILING FEE	1252		2252			sion for reply within secor			
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Fee Fee Fee Fee Fee Description Fee Paid Code (\$)		1,480	2254			sion for reply within fourth			
1001 770 2001 385 Utility filing fee 770.00		2,010		1,005	Exten	sion for reply within fifth n	nonth		
1002 340 2002 170 Design filing fee	1401		2401			of Appeal			
1003 530 2003 265 Plant filing fee	1402		2402		_	a brief in support of an ap	ppeal	<u> </u>	
1004 770 2004 385 Reissue filing fee	1403		2403		•	est for oral hearing			
1005 160 2005 80 Provisional filing fee	1451	1,510	2452			n to institute a public use n to revive - unavoidable	proceeding		
SUBTOTAL (1) (\$) 770.00		1,330	2453			n to revive - unintentional	•		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE		1,330	2501			issue fee (or reissue)			
Fee from Ext <u>ra Claim</u> s <u>below</u> <u>Fee Paid</u>	1502		2502		_	n issue fee			
Total Claims 32 -20** = 12 x 18 = 216.00	1503	640	2503	320	Plant	issue fee			
Independent 4 - 3** = 1 x 86 = 86.00  Multiple Dependent	1460	130	1460	130	Petitio	ons to the Commissioner			
	1807	50	1807	50	Proce	ssing fee under 37 CFR 1	1.17(q)		
Large Entity   Small Entity Fee Fee Fee Fee Fee Description	1806	180	1806			ssion of Information Discl			
Code (\$)	8021	40	8021	40	Recor	ding each patent assignm ty (times number of prope	ent per erties)		
1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3	1809	770	2809		Filing	a submission after final re	•		
1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2810	385	-	FR 1.129(a)) ach additional invention to	he		
1204 86 2204 43 ** Reissue independent claims over original patent					exami	ned (37 CFR 1.129(b))			
1205 18 2205 9 ** Reissue claims in excess of 20	180° 1802		2801 1802			est for Continued Examin	, ,	┝──┤╏	
and over original patent		of a design application						<u> </u>	
SUBTOTAL (2) (\$) 302.00		Other fee (specify)  *Reduced by Basic Filing Fee Paid  SUPTOTAL (2) (\$\cdot\) 0.00						<del> </del>	
The number previously paid, if greater; For Reissues, see above									
SUBMITTED BY		(Complete (if applicable))							
Name (Print/Type) Dave R. Hofman	1	Registration No. 55,272 Telephone 972-739-8630							

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(Attornev/Agent)

Signature

Date

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:
Chun-Chieh Lin,
S
Customer No. 27683

Serial No. Unknown
S
Group Art Unit: Unknown
Filed: Herewith
S
Examiner: Unknown

For: MRAM DEVICE HAVING LOW-K
INTER-METAL DIELECTRIC
S
Attorney Docket No. 24061.188
Customer No. 27683

Examiner: Unknown

S
Examiner: Unknown

## **EXPRESS MAIL CERTIFICATE**

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

I hereby certify that the following attached papers and fee:

- 1. Utility Patent Application Transmittal;
- 2. Fee Transmittal (in duplicate);
- 3. Patent Application consisting of 10 pages of specification, 32 claims and 1 page Abstract of Disclosure;
- 4. Four (4) drawing sheets;
- 5. Application Data Sheet;
- 6. Check in the amount of \$1,072.00 for the filing fee;
- 7. Express Mail Certificate; and
- 8. Return Postcard

are being deposited with United States Postal Service "Express Mail Post Office to Addressee" via **Express Mail Number: EV333441750US** to the Commissioner for Patents, Box Patent Application, Alexandria, VA. 22313-1450, on the 2<sup>nd</sup> day of April, 2004.

Typed or Printed Name

Multiwood

Signature